

## Claims

- [c1] 1.A device providing for a display screen and performing predetermined processing by operating a pointer displayed on the display screen, the device comprising:  
a display controller for controlling a display position of the pointer on the display screen;  
a displacement detector for detecting a displacement of the device itself; and  
a pointer moving device for moving the pointer on the display screen based on the detected displacement of the device itself.
- [c2] 2.The device according to claim 1, wherein the displacement detector comprising an image sensor, wherein an image sensed by the image sensor is processed to obtain a displacement of the device itself.
- [c3] 3.The device according to claim 2, wherein the image sensor comprising a complementary metal-oxide semiconductor or a charge coupled device.
- [c4] 4.The device according to claim 2, wherein the image sensor comprising an infrared sensor.
- [c5] 5.The device according to claim 2, further comprising an operator for activating the image sensor.
- [c6] 6.The device according to claim 5, wherein the operator further includes the function for directing a selection of an object pointed to by the pointer or for the execution of predetermined processing defined for the object, whereby the operator has a plurality of functions.
- [c7] 7.The device according to claim 1, wherein the device is of a wristwatch type.
- [c8] 8.A wristwatch type device, comprising:  
a display for displaying a screen;  
a case for supporting the display;  
an attached belt attached to the case; and  
a touch sensor mounted in the case or the attached belt for performing a

predetermined operation on an object displayed on the screen.

[c9] 9.The wristwatch type device according to claim 8, wherein the touch sensor is provided on both sides of the display.

[c10] 10.The wristwatch type device according to claim 8, further comprising:  
displacement detection section for detecting a displacement of the display; and  
pointer position changing device for changing a display position of a pointer based on the detected results, thereby moving the pointer displayed on the screen.

[c11] 11.A method for moving a position of a pointer displayed in a display of a device, comprising:  
a first step of taking an image of a physical object facing the device continuously and detecting a relative displacement between the taken object and the display; and  
a second step for changing a display position of the pointer displayed on the display based on the detected displacement.

[c12] 12.The method according to claim 11, wherein the first step further comprising the steps of:  
calculating a motion vector at a certain place in an image based on the movement of the image that was taken multiple times; and  
obtaining a relative displacement between the object and the display based on the calculated motion vector.

[c13] 13.The method according to claim 12, when moving the device relative to the object, the relative displacement between the object and the display is obtained by inverting a sign of the motion vector.

[c14] 14.The method according to claim 11, wherein the first step comprising the steps of:  
generating a time-series moving pattern of a certain place based on a position of the certain place in a principal image and a position of a place corresponding to the certain place in a plurality of other images that were taken apart in time

from the principal image; and  
comparing the generated time-series moving pattern with a plurality of model patterns registered in advance to select a most approximate model pattern;  
wherein the second step comprising the steps of changing a display position of the pointer based on a moving pattern that was defined for the selected model pattern.

[c15] 15.A method for moving a pointer displayed in a display of a device, comprising the steps of:  
detecting a displacement of the device when moving the device; and  
changing a display position of the pointer displayed in the display based on the detected displacement.

[c16] 16.The method according to claim 15, further comprising the steps of starting to detect a displacement of the device when a predetermined startup operation is performed by a user.